PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference CWRU-PWO-048	FOR FURTHER ACTION	See item 4 below			
	International filing date (day/month/year) 01 April 2005 (01.04.2005)	Priority date (day/month/year) 01 April 2004 (01.04.2004)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant CASE WESTERN RESERVE UNIVERSITY					

	Carrier and the last of the same					
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total	of 7 sheets, including this cover sheet.				
	In the attached sheets, any refere to the international preliminary i	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.				
3.	This report contains indications	relating to the following items:				
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV Lack of unity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or indapplicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4,	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).					

Date of issuance of this report 04 October 2006 (04.10.2006)

Agnes Wittmann-Regis

Authorized officer

e-mail: pt06@wipo.int

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

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WIPO			······		P(TC

To: see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (DCT Dula Aghie 1)

		(PC) Rule 43bis.1)			
		Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below			
International application No. PCT/US2005/011381	International filing date (a 01.04.2005	lay/month/year)	Priority date (day/month/year) 01.04.2004		
International Patent Classification (IPC) A61K31/409, A61P35/00, A61P3	or both national classification a 35/04, A61P43/00	and IPC .			
Applicant	_				

1.	This opinion contains indication	ons relating to	the following	items:
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☑ Box No. I

Basis of the opinion

☐ Box No. II

Priority

CASE WESTERN RESERVE UNIVERSITY

🛛 Box No. iii

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV

Lack of unity of invention

Certain documents cited

☑ Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI

☐ Box No. VII Certain defects in the International application

☑ Box No. VIII Certain observations on the international application

FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the international Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220. 3.

Name and mailing address of the ISA:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Authorized Officer

Taylor, G.M.

Telephone No. +49 89 2399-8406



	Вох	No	. I Basis of the opinion
1.	the la	ang	ard to the language, this opinion has been established on the basis of the international application in uage in which it was filed, unless otherwise indicated under this item.
		lan (un	s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)).
2.	With	re: ess	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. ty	ре	of material:
]	a sequence listing
	[]	table(s) related to the sequence listing
	b. fo	orm	at of material:
	i		in written format
	I		in computer readable form
	c. t	ime	of filing/furnishing:
			contained in the international application as filed.
			filed together with the international application in computer readable form.
			furnished subsequently to this Authority for the purposes of search.
(3. 🛘	h	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.
	4. Ac	iditi	onal comments:

	inventive step and industrial				
annlicability	opinion with regard to novelty, inventive step and industrial				
	nvention appears to be novel, to involve an inventive step (to be non ble have not been examined in respect of:				
☐ the entire international application	on,				
⊠ claims Nos. 12-24					
because:					
the said international application which does not require an international application	n, or the said claims Nos. 12-24 relate to the following subject matter national preliminary examination <i>(specify)</i> :				
see separate sheet					
unclear that no meaningful opin	ings (indicate particular elements below) or said claims Nos. are so nion could be formed (specify):				
the claims, or said claims Nos.	are so inadequately supported by the description that no meaningful opinion				
☐ no international search report l	has been established for the whole application or for said claims Nos.				
the nucleotide and/or amino ac C of the Administrative Instruc	old sequence listing does not comply with the standard provided for in Annex				
the written form	☐ has not been furnished				
-	☐ does not comply with the standard				
the computer readable form	☐ has not been furnished				
	☐ does not comply with the standard				
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
☐ See separate sheet for further details					

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

5, 6, 8-11, 18, 19, 21-24, 28, 29, 31, 32

No: Claims

1-4, 7, 12-17, 20, 25-27, 30, 33

Inventive step (IS)

Yes: Claims

No: Claims

1-33

Industrial applicability (IA)

Yes: Claims

1-11,25-33

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Cited Documents

D1: WO 02/096913 V

D2: EP-A-0 633 024 //

D3: EP-A-0 720 853 /

D4: WO 92/01753 ^r

D5: US-A-5 358 940 V

D6: WO 95/06688 🗸

D7: WO 99/23882 ~

D8: VOROZHTSOV, G N ET AL: "Phosphonylmethyl phthalocyanine derivatives in preparations for photodynamic therapy" CHEMICAL ABSTRACTS 2002, vol. 136, abstract no. 183942:

D9: WO 03/037902

D10: WAINWRIGHT, M: "Local treatment of viral disease using photodynamic therapy" ✓INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS 2003, 21, 510-520.

Section III

Claims 12-24 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(l) PCT).

Section V

- Claims 1-4, 7, 12-17, 20, 25-27, 30 and 33 do not meet the requirements of Art. 33(2) PCT because compositions falling within the scope of the present claims are known in the prior art for use in methods of treatment also falling within the scope of the present application. See documents D1-D4, D6, D7 and D8.
- The novel aspects of the claimed subject-matter cannot be seen as meeting the 3. requirements of Art. 33(3) PCT.

It is clear from the cited prior art that compositions claimed in the present application are useful in the treatment of tumours. Furthermore, topical administration is presented as being a viable, if not preferred, mode of administration (see D2, page 2, lines 8-18 and D3, page 2, lines 5-24).

Moreover, the use of novel salts of known pharmaceuticals cannot be seen as being inventive unless their use results in an advantageous or unexpected effect

not derivable from the prior art.

Notwithstanding the above objections, the claimed subject-matter does not meet 4. the requirements of Art. 33(3) PCT over its whole scope.

It is clear from D3 (page 2, lines 20-24) that not all topical formulations of (at least) zinc phthalocyanines are effective in providing significant skin penetration and hence being of use in PDT.

Moreover, the Applicant has only provided data to cover a very small sub-set of the range of compounds claimed.

A reasonable doubt that the underlying technical problem is solved over the whole scope of the claims therefore exists and an inventive step cannot be recognised for the present claims.

For the assessment of the present claims 12-24 on the question whether they are 5. industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Section VIII

Claim 16 is unclear because it refers to "a pharmaceutical composition of claim 14", whereas claim 14 is directed to a method of treatment.

Similar objections apply to claim 23 in respect of its dependency upon claim 22.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing	
(day/month/year)	see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION See paragraph 2 below

International application No. PCT/US2005/011381

International filing date (day/month/year) 01.04.2005

Priority date (day/month/year) 01.04.2004

international Patent Classification (IPC) or both national classification and IPC A61K31/409, A61P35/00, A61P35/04, A61P43/00

Applicant

CASE WESTERN RESERVE UNIVERSITY

1.	This opinion contains	indications	relating	to the	following	items:
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- Box No. 1 Basis of the opinion
- ☐ Box No. II Priority
- Non-establishment of opinion with regard to noveity, inventive step and industrial applicability Box No. III
- Lack of unity of invention ☐ Box No. iV
- Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement
- Certain documents cited ☐ Box No. VI
- ☐ Box No. VII Certain defects in the international application
- ☑ Box No. VIII Certain observations on the international application

FURTHER ACTION

If a demand for International preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the international Bureau under Rule 66.1 bis(b) that written opinions of this international Searching Authority will not be so considered.

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For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

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Authorized Officer

Taylor, G.M.

Telephone No. +49 89 2399-8406



	No. I Basis of the opinion
the la	regard to the language , this opinion has been established on the basis of the international application in anguage in which it was filed, unless otherwise indicated under this item.
1	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With nece	regard to any nucleotide and/or amino acid sequence disclosed in the international application and essary to the claimed invention, this opinion has been established on the basis of:
a. tyj	pe of material:
	a sequence listing
	able(s) related to the sequence listing
b. fo	ormat of material:
	in written format
	☐ in computer readable form
c. tiı	me of filing/furnishing:
[contained in the international application as filed.
[\square filed together with the international application in computer readable form.
[☐ furnished subsequently to this Authority for the purposes of search.
3. 🗆	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Add	ditional comments:

	multiple step and industrial				
annlicability	gard to novelty, inventive step and industrial				
The questions whether the claimed invention appears obvious), or to be industrially applicable have not bee	to be novel, to involve an inventive step (to be non nexamined in respect of:				
\square the entire international application,					
⊠ claims Nos. 12-24					
because:					
the said international application, or the said claim which does not require an international prelimina	ms Nos. 12-24 relate to the following subject matter ary examination (specify):				
see separate sheet					
the description, claims or drawings (indicate pal unclear that no meaningful opinion could be for	neu (opeen)				
the claims, or said claims Nos. are so inadequated the could be formed.	tely supported by the description that no meaningful opinion				
☐ no international search report has been established.	shed for the whole application or for said claims Nos.				
the nucleotide and/or amino acid sequence listi C of the Administrative Instructions in that:	ng does not comply with the standard provided for in Annex				
the written form ☐ has not b	een furnished				
	comply with the standard				
the computer readable form \qed has not b	een furnished				
☐ does not	comply with the standard				
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☐ See separate sheet for further details					

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

5, 6, 8-11, 18, 19, 21-24, 28, 29, 31, 32

No: Claims

1-4, 7, 12-17, 20, 25-27, 30, 33

Inventive step (IS)

Yes: Claims

No: Claims

1-33

Industrial applicability (IA)

Yes: Claims

1-11,25-33

No: Claims

2. Citations and explanations

see separate sheet

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see separate sheet

Cited Documents

D1: WO 02/096913

D2: EP-A-0 633 024

D3: EP-A-0 720 853

D4: WO 92/01753

D5: US-A-5 358 940

D6: WO 95/06688

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D8: VOROZHTSOV, G N ET AL: "Phosphonylmethyl phthalocyanine derivatives in preparations for photodynamic therapy" CHEMICAL ABSTRACTS 2002, vol. 136, abstract no. 183942:

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D10: WAINWRIGHT, M: "Local treatment of viral disease using photodynamic therapy" INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS 2003, 21, 510-520.

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Claims 12-24 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(I) PCT).

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- Claims 1-4, 7, 12-17, 20, 25-27, 30 and 33 do not meet the requirements of Art. 33(2) PCT because compositions falling within the scope of the present claims are known in the prior art for use in methods of treatment also falling within the scope of the present application. See documents D1-D4, D6, D7 and D8.
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It is clear from the cited prior art that compositions claimed in the present application are useful in the treatment of tumours. Furthermore, topical administration is presented as being a viable, if not preferred, mode of administration (see D2, page 2, lines 8-18 and D3, page 2, lines 5-24).

Moreover, the use of novel salts of known pharmaceuticals cannot be seen as being inventive unless their use results in an advantageous or unexpected effect not derivable from the prior art.

Notwithstanding the above objections, the claimed subject-matter does not meet 4. the requirements of Art. 33(3) PCT over its whole scope.

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Section VIII

Claim 16 is unclear because it refers to "a pharmaceutical composition of claim 6. 14", whereas claim 14 is directed to a method of treatment.

Similar objections apply to claim 23 in respect of its dependency upon claim 22.

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WIPO					<u> </u>	

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

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	Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)				
	FOR FURTHE See paragraph 2	R ACTION Delow			
International filing date (day/month/year) 01.04.2005		Priority date (day/month/year) 01.04.2004			
	and IDC				

International Patent Classification (IPC) or both national classification and IPC A61K31/409, A61P35/00, A61P35/04, A61P43/00

Applicant

CASE WESTERN RESERVE UNIVERSITY

 This opinion contains indications relating to the following item:

 Box No. I Basis of the opinion

Applicant's or agent's file reference see form PCT/ISA/220

International application No.

PCT/US2005/011381

☐ Box No. II Priority

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III

Lack of unity of Invention ☐ Box No. IV

Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial ☑ Box No. V

applicability; citations and explanations supporting such statement

Certain documents cited ☐ Box No. VI

☐ Box No. VII Certain defects in the International application

Box No. VIII Gertain observations on the international application

FURTHER ACTION

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Name and mailing address of the ISA:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx; 523656 epmu d Fax: +49 89 2399 - 4465

Authorized Officer

Taylor, G.M.

Telephone No. +49 89 2399-8406



	Box N					
1.	. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	la (u	ils opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).				
2.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: 					
a. type of material:						
		a sequence listing				
		table(s) related to the sequence listing				
b. format of material:		nat of material:				
		in written format				
		in computer readable form				
c. tlme of filling/furnishing:		e of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
;	l	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
	4 Addi	ional comments:				

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial					
Box No. III Non-establishment of opinion wit applicability	n regard to novelty, inventive stop and many				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
\square the entire international application,	the entire international application,				
⊠ claims Nos. 12-24	claims Nos. 12-24				
because:					
the said international application, or the said claims Nos. 12-24 relate to the following subject matter which does not require an international preliminary examination (specify):					
see separate sheet	see separate sheet				
unclear that no meaningful opinion could be	unclear that no meaningful opinion could be formed (specify).				
the claims, or said claims Nos. are so Inade could be formed.	the claims, or said claims Nos. are so Inadequately supported by the description that no meaningful opinion could be formed.				
□ no international search report has been est	to send the part has been established for the whole application or for said claims Nos.				
the nucleotide and/or amino acid sequence C of the Administrative Instructions in that:	The pucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex				
the written form	ot been furnished				
	not comply with the standard				
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

5, 6, 8-11, 18, 19, 21-24, 28, 29, 31, 32

No: Claims

1-4, 7, 12-17, 20, 25-27, 30, 33

Inventive step (IS)

Yes: Claims

No: Claims

1-33

Industrial applicability (IA)

Yes: Claims

1-11,25-33

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

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Cited Documents

D1: WO 02/096913

D2: EP-A-0 633 024

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Section III

Claims 12-24 relate to subject-matter considered by this Authority to be covered 1. by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(l) PCT).

Section V

- Claims 1-4, 7, 12-17, 20, 25-27, 30 and 33 do not meet the requirements of Art. 33(2) PCT because compositions falling within the scope of the present claims are known in the prior art for use in methods of treatment also falling within the scope of the present application. See documents D1-D4, D6, D7 and D8.
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